

ABSTRACT

An active material powder mixture for batteries or a carbonaceous material powder mixture for electrical double-layer capacitors is composed of a battery active material or a carbonaceous material in combination with an electrically conductive powder that adheres to the periphery of the active material or carbonaceous material and has an average particle size of 10 nm to 10 μ m. The battery active material powder mixture may be used to make electrodes for secondary batteries. The carbonaceous material powder mixture may be used to make polarizable electrodes for electrical double-layer capacitors. Secondary cells produced using the active material powder mixture can lower an impedance of an electrode and operate at a high capacity and a high current, have a high rate property, and are thus well-suited for use as lithium secondary cells and lithium ion secondary cells. Electrical double-layer capacitors made using the carbonaceous material powder mixture have a high output voltage and a high capacity because of a low impedance.